

## Abstract

## Optical transmission system

5 The invention relates to an optical transmission system (OTS) comprising a plurality of optical fiber line sections (FDS) with in each case an optical fiber (SSMF) and a dispersion compensation unit (DCF), in the  
10 case of which dispersion compensation units (DCF) are provided that compensate the fiber dispersion (d) of a plurality of fiber line sections (FDS<sub>1</sub> to FDS<sub>4</sub>) in such a way that the remaining residual dispersion (D<sub>rest</sub>) per compensated fiber line section (FDS<sub>1</sub> to FDS<sub>4</sub>) rises at  
15 least virtually uniformly by the same absolute-magnitude dispersion ( $\Delta D$ ) in each case.

Figure 2

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